



Guided Missile Frigate (FFG 62) Update Sea Air Space

CAPT Kevin Smith
April 05, 2022



Guided Missile Frigate (FFG 62) Program Description



Mission:

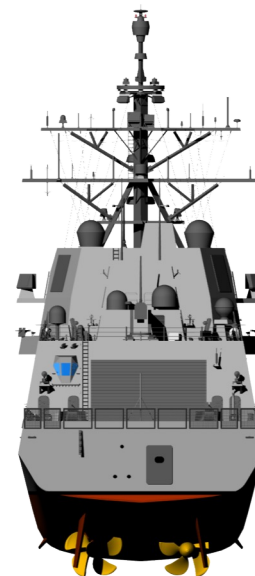
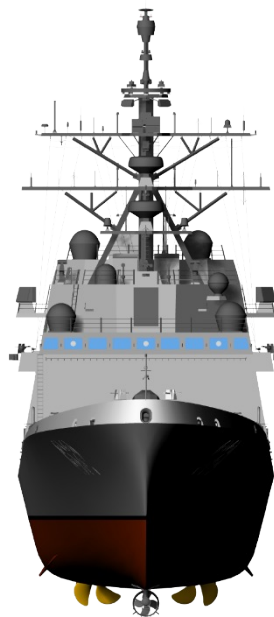
Anti-Submarine Warfare, Surface Warfare, Electromagnetic Maneuver Warfare, and Air Warfare

Description:

FFG 62 is an agile, multi-mission platform designed for operation in littoral and blue water environments

Employment:

Operate independently or integrated with a Task Force to conduct offensive and defensive Surface, Anti-Submarine, and Air Warfare





Program Focus

- **Frigate Class Detail Design** → Critical Design Review 2QFY22
- **FFG 62 Lead Ship Construction** → Production Readiness Review 3QFY22
- **FFG 64 Third Ship Option** → USS CHESAPEAKE 3QFY22
- **Fincantieri Capital Improvement** → Marinette WI and Sturgeon Bay WI
- **AEGIS Combat System Integration** → Moorestown NJ and Wallops Island VA
- **Propulsion Land Based Engineering Site (LBES) Development** → NSWC Philadelphia PA



Acquisition Approach

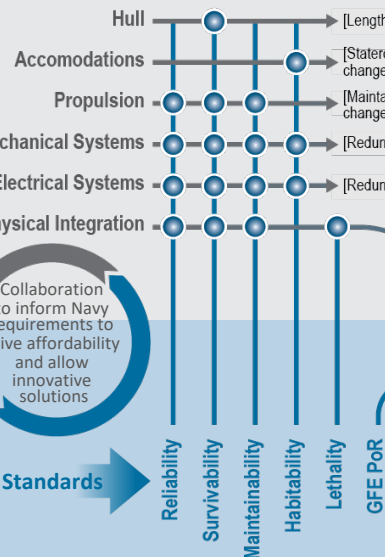
Conceptual Design
Collaboratively incorporate U.S. Navy requirements into parent design

Source Selection -
Evaluate Best Value of proposed FFG(X)
RFP Award

Detail Design & Construction
Validate FFG 62 meets requirements, develop production packages, build

Full and Open Competition

Capability Development Document
System Specs
Requirements



Collaboration to inform Navy requirements to drive affordability and allow innovative solutions

[Lengthen]
[Staterooms, change layout]
[Maintain architecture, change equipment]
[Redundancy]
[Redundancy]



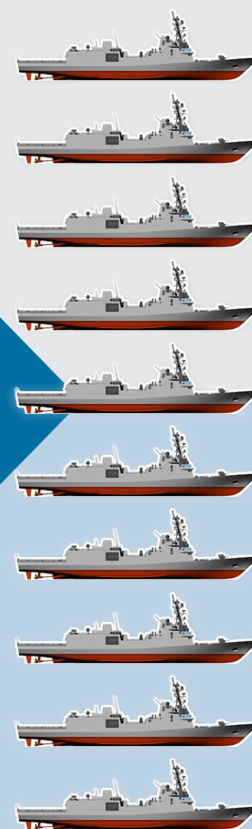
Functional Design

- Scale model testing and local structural updates
- Domestic sourcing of propulsion equipment (form, fit, function)
- Stable specifications since award

3D Model

- Digital Tools
- Tech Data Package

FFG 62 Class



Risk Reduction with Parent Hull
Key U.S. Navy Combatant Standards, Combat Systems, and C4I



Production Readiness (People, Process, Product): Fincantieri Production Plan – System of Yards



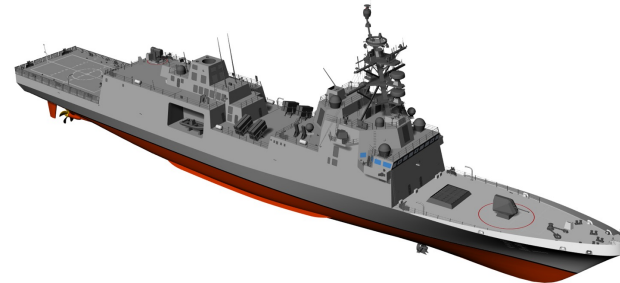
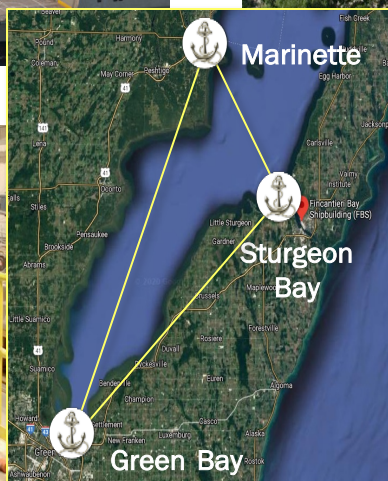
Fincantieri Marinette Marine • Marinette, Wisconsin



Fincantieri Bay Shipbuilding • Sturgeon Bay, Wisconsin



Fincantieri ACE Marine • Green Bay, Wisconsin





Fincantieri Marine Group (FMG) Shipyard Capital Improvements



- Major upgrades and expansions underway to support FFG 62 Class



1 BLDG 34
FFG (X) Hull Erection
2 bays
180,000 sq/ft
Construction Started: JAN 21



Marinette WI



2 BLDG 433 (new)
Module and Super (Tandem) Construction, and Hull Erection
2 Bays – 12 Workstations
90,000 sq/ft
Construction Started: NOV 20

Sturgeon Bay WI



Risk Reduction via Early Integration Test: Land and At-Sea Integration Testing



C4I



HM&E



Combat Systems



Aviation





Land Based Engineering Site

- **Background**

- FY21 NDAA directed SECNAV to report on the plan to establish a Land Based Engineering and Test Site (LBES)
- PB22 budget supports development of equipment specifications, site preparation, and test planning
- LBES aids in the risk reduction of propulsion architecture, and operation and control

- **Status**

- LBES requirements have been developed and are in final stages of Frigate PMO approval
- LBES site planning, plant design, and equipment specifications are being developed by Navy Installation, and approved by Frigate PMO – process is currently underway
- FFG 62 LBES activities began in FY2021 in order to support planned initial operational capability (IOC) for the class in FY2029
- Navy is on target to begin procurement of long lead time plant components and test equipment Q4 FY2022



Questions?